Thick Film Thermal Printhead (300dpi)

KD3003-DC92A

KD3003-DC92A is developing type of GL40 series which are developed mainly for label printers.
We have adopted low coefficient of abrasion and conductive protection coat to GL40 series which are possible for high speed and good printing quality.
That is KD3003-DC92A which is 24V standard thick film thermal print head with high speed, high quality of printing, high durability, long life, and strong resistance to abration.

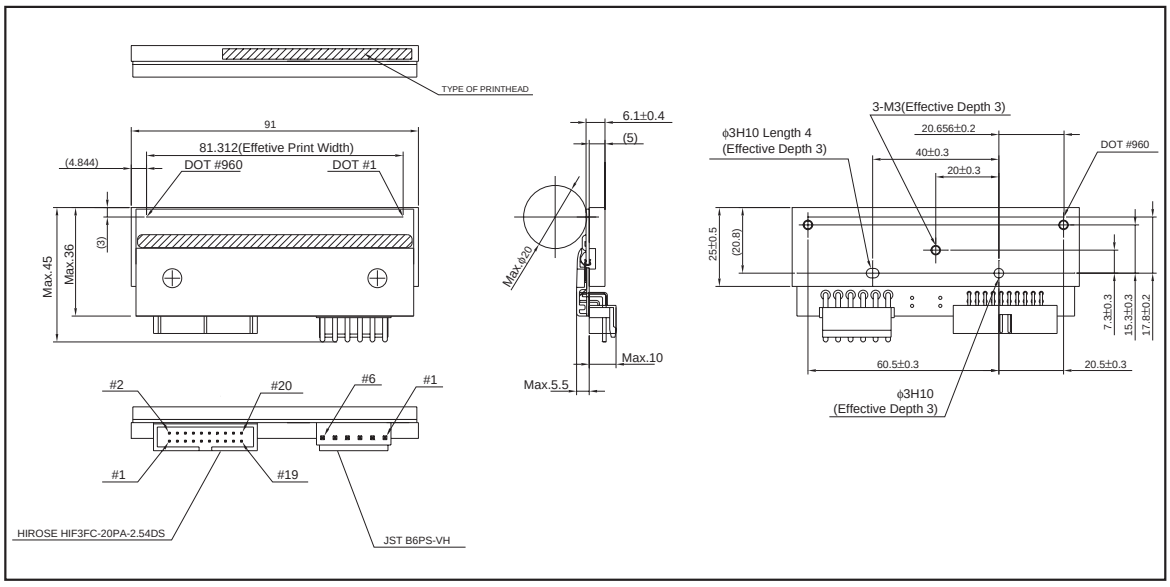
●Applications

High speed label printer
Food label printer
High speed ticket printer
High speed terminal printer

●Features

1) Perform 150km life time adopting new protective coat.
(Perform three times life time by coefficient of abrasion which is about is about 1/10 of current mass-producing coat.)
2) Build in thermal high speeded heater and perform high printing 4 IPS. (100mm / s)
3) Available for thermal transfer printing by adopting specific partial glaze.

●Dimensions (Unit : mm)



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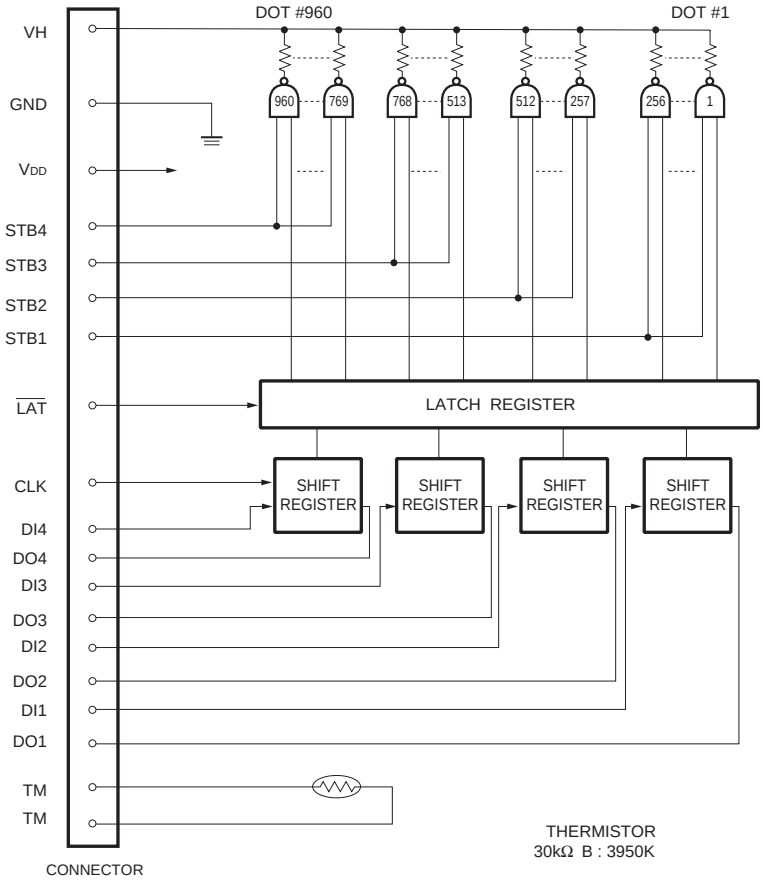
●Equivalent circuit



DI No.	DOT No.
DI1	1 to 256
DI2	257 to 512
DI3	513 to 768
DI4	769 to 960

STB No.	DOT No.
STB1	1 to 256
STB2	257 to 512
STB3	513 to 768
STB4	769 to 960

Fig. 1

●Pin configuration

CONNECTOR A

No.	Circuit	No.	Circuit
1	GND	11	TM
2	V_{DD}	12	TM
3	GND	13	DI3
4	V_{DD}	14	DO3
5	STB4	15	DI2
6	CLK	16	DO2
7	DI4	17	STB2
8	DO4	18	STB1
9	STB3	19	DI1
10	$\overline{LAT}$	20	DO1

CONNECTOR B

No.	Circuit
1	VH
2	VH
3	VH
4	GND
5	GND
6	GND

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●Timing chart

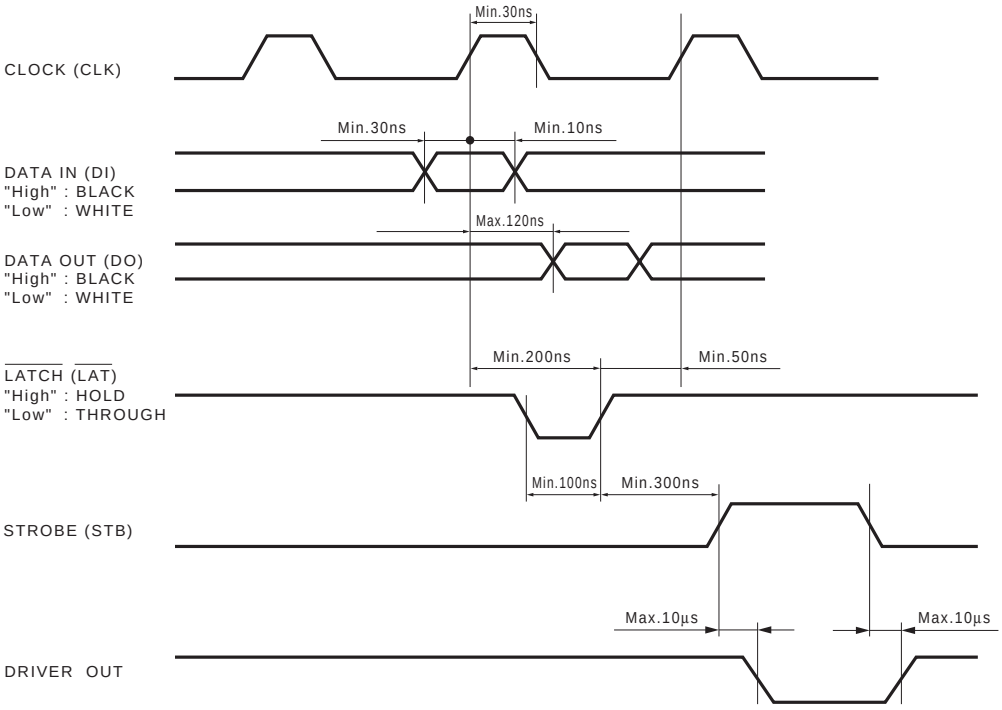

Fig.2

●Characteristics

Parameter	Symbol	Typ.	Unit
Effective printing width	–	81.31	mm
Dot pitch	–	0.0847	mm
Total dot number	–	960	dots
Average resistance value	Rave	1250	Ω
Applied voltage	V_H	24	V
Applied power	P_O	0.53	W / dot
Print cycle	SLT	0.83	ms
Maximum number of dots energized simultaneously	–	960	dots
Maximum clock frequency	–	12	MHz
Maximum roller diameter	–	ϕ20.0	mm
Running life / pulse life	–	150 / 1×10^8	km / pulses
Operating temperature	–	5 to 45	˚C

●Data sheet

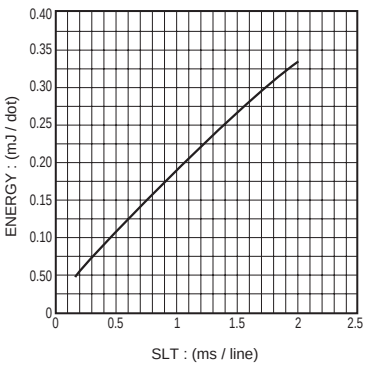

Fig.3 Maximum energy curve

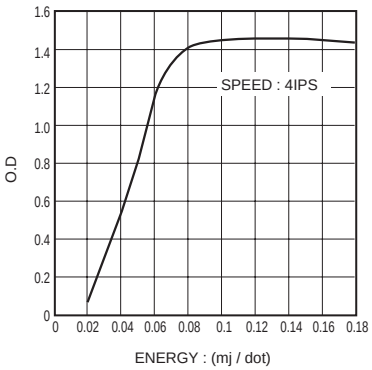

Fig.4 Representative density curve

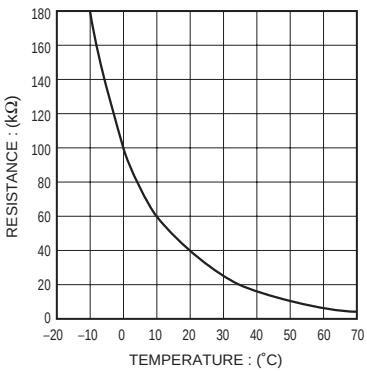

Fig.5 Thermistor curve

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